

Input Set : N:\Crf3\RULE60\09612914A.txt
Output Set: N:\CRF3\09042001\I612914A.raw

SEQUENCE LISTING

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(1) GENERAL INFORMATION:
                                                                 unhuato
      6
             (i) APPLICANT: Hanna, Nabil
     .7
                            Newman, Roland A.
      8
                            Reff, Mitchell E.
            (ii) TITLE OF INVENTION: Recombinant Anti-CD4 Antibodies
     10
     11
                                      Therapy
     13
           (iii) NUMBER OF SEQUENCES: 59
     15
            (iv) CORRESPONDENCE ADDRESS:
                  (A) ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
     16
                  (B) STREET: 699 Prince Street
     17
                  (C) CITY: Alexandria
     18
                                                           ENTERED
     19
                  (D) STATE: VA
     20
                  (E) COUNTRY: USA
     21
                  (F) ZIP: 22314-3187
     23
             (V) COMPUTER READABLE FORM:
     24
                  (A) MEDIUM TYPE: Floppy disk
     25
                  (B) COMPUTER: IBM PC compatible
     26
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     27
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
            (vi) CURRENT APPLICATION DATA:
     29
                  (A) APPLICATION NUMBER: US/09/612,914A
C--> 30
C--> 31
                  (B) FILING DATE: 10-Jul-2000
     37
                  (C) CLASSIFICATION:
     34
           (vii) PRIOR APPLICATION DATA:
     35
                  (A) APPLICATION NUMBER: US 08/523,894
                  (B) FILING DATE: 06-SEP-1995
     36
     39
          (viii) ATTORNEY/AGENT INFORMATION:
     40
                  (A) NAME: Teskin, Robin L.
                  (B) REGISTRATION NUMBER: 35,030
     41
     42
                  (C) REFERENCE/DOCKET NUMBER: 012712-165
            (ix) TELECOMMUNICATION INFORMATION:
     44
                  (A) TELEPHONE: 703-836-6620
     45
                  (B) TELEFAX: 703-836-2021
     46
     49
        (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     51
     52
                  (A) LENGTH: 420 base pairs
     53
                  (B) TYPE: nucleic acid
     54
                  (C) STRANDEDNESS: single
     55
                  (D) TOPOLOGY: linear
            (ii) MOLECULE TYPE: DNA (genomic)
     57
     59
            (vi) ORIGINAL SOURCE:
                  (A) ORGANISM: Monkey
     60
     62
          (viii) POSITION IN GENOME:
     63
                  (A) CHROMOSOME/SEGMENT: light variable domain of CE9.1
     65
            (ix) FEATURE:
     66
                  (A) NAME/KEY: CDS
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67 69		(ix)	(E		CATI	ON:	44	20									
70		()			ME/K	EY:	mat_	pept	ide								
71	(B) LOCATION: 61420 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:																
74		(xi)	SEÇ	UENC	E DE	SCRI	PTIC	N: S	EQ]	D NC): 1:	:			000	3.63	48
76	GAC	ATG	AAA	CAC	CTG	TGG	TTC	TTC	CTC	CTC	CTG	GTG	GCA	GCC 3.1.5	Dro	AGA	40
77			Lys	His	Leu		Phe	Phe	Leu	Leu		vaı	АТА	Ата	PIO	- 5	
78		-19		maa	ar c	-15	CAC	CMC	CAC	CAC	-10	GGC	CCA	GGA	СТС	_	96
80	TGG	GTC	TTG	TCC	CAG Gln	GTG	CAG	Lau	Cln	Clu	λla	GUV	Pro	Glv	Leu	Val	
	Trp	vaı	ьeu	ser	1	Val	GTII	Leu	5	GIU	AIG	OLY	110	10			
82	7 7 C	CCT	ጥርር	GAG	ACC	CTG	TCC	СТС	_	TGC	AGT	GTC	TCT		GGC	TCC	144
04 85	Luc	Dro	Ser	Glu	Thr	Len	Ser	Leu	Thr	Cvs	Ser	Val	Ser	Gly	Gly	Ser	
86	цуз	110	15	014			001	20		- 1			25	-	_		
88	АТС	AGC	GGT	GAC	TAT	TAT	TGG	TTC	TGG	ATC	CGC	CAG	TCC	CCA	GGG	AAG	192
89	Ile	Ser	Gly	Asp	Tyr	Tyr	Trp	Phe	Trp	Ile	Arg	Gln	Ser	Pro	Gly	Lyż	
90		30					35					40					
92	GGA	CTG	GAG	TGG	ATC	GGC	TAC	ATC	TAT	GGC	AGT	GGT	GGG	GGC	ACC	TAA	240
93	Gly	Leu	Glu	Trp	Ile	Gly	Tyr	Ile	Tyr	Gly	Ser	Gly	Gly	Gly	Thr	Asn	
94	45					50					55					60	222
96	TAC	AAT	CCC	TCC	CTC	AAC	AAT	CGA	GTC	TCC	ATT	TCA	ATA	GAC	ACG	TCC	288
97	Tyr	Asn	Pro	Ser	Leu	Asn	Asn	Arg	Val		Ile	Ser	Ile	Asp	Thr	ser	
98					65					70					75	2 3 66	226
100) AA	G AA	CCT	C TT	C TC	CTC	G AA	A CT	G AG	G TC	r GT	G AC	C GC	C GCC	G GA	C ACG	. 336
101	Lys	s As	n Le			r Le	ı Ly	s Le			r Va.	ı ıın:	r Ala	a Ala	a AS	p Thr	
102	2			8					8	-	~ ~ ~	י אוד א	ייי כיייי	9י יי כאי		α ጥጥΔ	384
104	I GC	C GT	C TA	r TA	C TG!	r GCC	G · AG'	T AA	r Ar.	A TT	J AA	A TA	r (L).	ı Hi	c Tr	G TTA	301
		a Va			r Cy	S Ale	a se.	10		е те	и шу	Б ІУ.	10	u 111. 5	5	p Leu	
106			9 0. mg		C CA	- cc	xm/			C 7 C	с ст	ር ጥር		_			420
108	3 TTV	A TA	C TG	5 GG	y Gl	5 GG/	u Va	l Le	u Va	C AC	r Va	l Se	r				
		и ту 11		р ст	y GI	11 61	y v a. 11		u vu		_ , u	12					
11(ОТТА	N FO	R SE			2:								
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110	_	`			LENG'					ids							
11					TYPE												
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12	2	(x	i) S	EQUE	NCE	DESC	RIPT	ION:	SEQ	ID	NO:	2:					
12	4 Me	t Ly	s Hi	s Le	u Tr	p Ph	e Ph	e Le	u Le	u Le	u Va	l Al	a Al	a Pr	o Ar	g Trp	
12	5 -1	9			-1	5				-1	0				-	5	
12	7 Va	l Le	u Se	r Gl	n Va	l Gl	n Le	u Gl	n Gl	u Al	a Gl	y Pr	o Gl	y Le	u Va	l Lys	
12	8				1				5				_	0		73-	
13	0 Pr	o Se	r Gl	u Th	r Le	u Se			r Cy	s Se	r Va	.I Se	r GI	y GI	у ѕе	r Ile	•
13	1	1	5					0 _		_			5	- 01	T	o Cl	
			y As	р Ту	r Ty			e Tr	p Il	e Ar	g Gl	n se	r Pr	O GT	у гу	s Gly 45	
13	4 3	0	_				5		01			0	,, cı	_Ն Մոհ	r 10 0		
		u Gl	u Tr	p Il			r 11	е ту	r Gl	y se	r G1	y GI	у СТ	Х ТП	יד אפ	n Tyr 0	
13	7				5	0				5					O		

139	Asn	Pro	Ser	Leu	Asn	Asn	Arg	Val	Ser	Ile	Ser	Ile	Asp		Ser	Lys	
140				65					70					75		_	
142	Asn	Leu	Phe	Ser	Leu	Lys	Leu		Ser	Val	Thr	Ala		Asp	Thr	Ala	
143			80					85					90	_	_	_	
145	Val	Tyr	Tyr	Cys	Ala	Ser		Ile	Leu	Lys	Tyr	Leu	His	Trp	Leu	Leu	
146		95			_	_	100				_	105					
	_	Trp	Gly	Gln	Gly		Leu	Val	Thr	Val							
149						115					120						
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161		(V1)	ORI														
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164	7)	7111)	POS						n . 1		*** **	i ahla	. 401	nain	of i	~EQ 1	
165			•	•		SOM	S/SEC	-MEN.	r: ne	ea∨y	Vai.	Tabre	e doi	lla III	OI '	CE9.1	
167		(lx)	FEA			cnv.	ana										
168				•	AME/I			207									
169						LON:	4	38/									
171		(lx)	FEA														
172								_pept	стае								
173 (B) LOCATION: 61387 176 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:																	
176	100	(XI)	SEG	DCC.	מת אר	SSCR.	CEC	י יאכ	CTTC	בט אי	J: 3	CTT	CCT	CAC	արար	ΔCΔ	48
	ACC	ATG	GCC	TGG	GCT	CTG	CTG	LOU	Tou	C111	Tau	Leu	λla	Hie	Dhe	Thr	40
179			Ala	тгр	Ald	-15	ьeu	ьец	ьeu	GIY	-10	пеп	AIG	1113	rnc	-5	
180	C	-19	COC	666	шаа		CAC	mmc	л с п	CAC		CGC	ጥሮል	стс	ጥርር	_	96
												Arg					
	Asp	261	міа	MIG	1	TYT	Giu	пси	5		110	**** 9	001	10	001		•
184	TPCC	CCN	CCA	CAG		GCC	GGG	ጥጥር		ጥርጥ	GGG	GGA	GAC		GTT	GGA	144
												Gly					
188	261	rio	15	GLII	1111	niu	011	20		O ₁ D	0_1	1	25				
	ΔGG	ΔΔΔ		СΤΆ	CAG	TGG	TAC		CAG	AAG	CCA	CCG		GCC	CCT	GTG	192
												Pro					
192	nry	30	001		02		35			-1 -		40					
	СТС		АТС	тат	GCT	GAC		GAA	CGG	CCC	TCA		ATC	CCT	GCG	CGA	240
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	GTC	GAG	GCC	GGG		GAG	GCT	GAC	TAT	TAC	TGT	CAG	GTG	TGG	GAC	AGT	336
												Gln					
204	,			80	<u>r</u> -			- 2	85		-			90	-		
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207	Thr	Ala	Asp	His	Trp	Val	Phe	Glv	Gly	Gly	Thr	Arq	Leu	Thr	Val	Leu	
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208	95	100		105										
210 GGT					387									
211 Gly														
215 (2)	INFORMATION FOR SEQ ID NO: 4:													
217	(i) SEQUENCE CHARACTERISTICS:													
218	(A) LENGTH: 128 amino acids													
219	(B) TYPE: amino acid													
220	(D) TOPOLOGY: linear													
222	(ii) MOLECULE TYPE: protein													
224	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:													
226 Met	Ala Trp Ala Leu Le	Leu Leu Gly	Leu Leu Ala	a His Phe Thr	Asp									
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229 Ser	Ala Ala Ser Tyr Gl	ı Leu Ser Gln	Pro Arg Se	r Val Ser Val	Ser									
230	. 1	5	_	10										
232 Pro	Gly Gln Thr Ala Gl	y Phe Thr Cys	Gly Gly As	p Asn Val Gly	Arg									
233	15	20	2		_									
235 Lys	Ser Val Gln Trp Ty	r Gln Gln Lys	Pro Pro Gli	n Ala Pro Val	Leu									
236 30	. 3		40		45									
238 Val	Ile Tyr Ala Asp Se	r Glu Arg Pro	Ser Gly Ile	e Pro Ala Arg	Phe									
239	50	•	55	60										
241 Ser	Gly Ser Asn Ser Gly	y Asn Thr Ala	Thr Leu Th	r Ile Ser Gly	Val									
242	65	70		. 75										
244 Glu	Ala Gly Asp Glu Ala	a Asp Tyr Tyr	Cys Gln Val	l Trp Asp Ser	Thr									
245	80	85	-	90										
247 Ala	Asp His Trp Val Pho	e Gly Gly Gly	Thr Arg Le	u Thr Val Leu	Gly									
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254	(A) LENGTH:	702 base pair:	S											
255	(B) TYPE: nu	cleic acid												
256	(C) STRANDED	NESS: single												
257	(D) TOPOLOGY	: linear												
259	(ii) MOLECULE TYPE	: DNA (genomi	C)											
261	(vi) ORIGINAL SOUR	CE:												
262	(A) ORGANISM	: Homo sapien:	S											
264 (viii) POSITION IN G	ENOME:												
265	(A) CHROMOSO	ME/SEGMENT: 1	ambda varial	ble and const	ant domains in									
266		C	E9.1		•									
268	(ix) FEATURE:		•											
269	(A) NAME/KEY	: CDS												
270	(B) LOCATION	: 1702												
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274	(B) LOCATION	: 1702												
277	(xi) SEQUENCE DESC	RIPTION: SEQ	ID NO: 5:											
279 ATG	GCC TGG GCT CTG CTG			T CAC TTT ACA	GAC 48									
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281 1	5		10	15										
283 TCT	GCG GCC TCC TAT GAG	G TTG AGT CAG	CCT CGC TC	A GTG TCC GTG	TCC 96									

RAW SEQUENCE LISTING

DATE: 09/04/2001 TIME: 12:34:34

PATENT APPLICATION: US/09/612,914A TIME: 12:34

	Ser	Ala	Ala		Tyr	Glu	Leu	Ser	Gln 25	Pro.	Arg	Ser	Val	Ser 30	Val	Ser		
285	003	CCA	CAG	20	CCC	GGG	ጥጥር	A C C		GGG	GGA	GAC	AAC		GGA	AGG		144
287	CCA	GGA	Gln	Mb.~	Ala	Glv	Phe	Thr	Cvs	Glv	Glv	Asp	Asn	Val	Gly	Arg		
	PIO	GIY	35	TIIT	Ата	Gry	1110	40	0,0	011	1		45		_	-		
289	* * *	አ ር ጥ	GTA	CAG	TGG	ጥልሮ	CAG		AAG	CCA	CCG	CAG	GCC	CCT	GTG	CTG		192
731	AAA	COT	Val	Gln	Trn	Tyr	Gln	Gln	Lvs	Pro	Pro	Gln	Ala	Pro	Val	Leu		
292	μλ2	50	Vai	GIII	111	-1-	55		-1 -			60						
295	ርጥር	ΔTC	TAT	GCT	GAC	AGC	GAA	CGG	CCC	TCA	GGG	ATC	CCT	GCG	CGA	TTC		240
295	Val	Tle	Tyr	Ala	Asp	Ser	Glu	Arg	Pro	Ser	Gly	Ile	Pro	Ala	Arg	Phe		
297	65					70					75					80	•	
299	тст	GGC	TCC	AAC	TCA	GGG	AAC	ACC	GCC	ACC	CTG	ACC	ATC	AGC	GGG	GTC		288
300	Ser	Glv	Ser	Asn	Ser	Gly	Asn	Thr	Ala	Thr	Leu	Thr	Ile	Ser	Gly	Val		
301					85					90					95	•		
303	GAG	GCC	GGG	GAT	GAG	GCT	GAC	TAT	TAC	TGT	CAG	GTG	TGG	GAC	AGT	ACT		336
304	Glu	Ala	Gly	Asp	Glu	Ala	Asp	Tyr	Tyr	Cys	Gln	Val	Trp	Asp	Ser	Thr		
305				100					105					110				
307	GCT	GAT	CAT	TGG	GTC	TTC	GGC	GGA	GGG	ACC	CGG	CTG	ACC	GTC	CTA	GGT		384
308	Ala	Asp	His	Trp	Val	Phe	Gly	Gly	Gly	Thr	Arg	Leu	Thr	Val	Leu	Gly		
309			115					120					125					
311	CAG	CCC	AAG	GCT	GCC	CCC	TCG	GTC	ACT	CTG	TTC	CCG	CCC	TCC	TCT	GAG		432
312	Gln	Pro	Lys	Ala	Ala	Pro	Ser	Val	Thr	Leu	Phe	Pro	Pro	Ser	Ser	Glu	·	
313		130					135					140						
315	GAG	Стт	CAA	GCC	AAC	AAG	GCC	ACA	CTG	GTG	TGT	CTC	ATA	AGT	GAC	TTC		480
316	Glu	Leu	Gln	Ala	Asn	Lys	Ala	Thr	Leu	Val	Cys	Leu	Ile	Ser	Asp	Phe		
	145		0			150					155					160		
319	TAC	CCG	GGA	GCC	GTG	ACA	GTG	GCC	TGG	AAG	GCA	GAT	AGC	AGC	CCC	GTC		528
320	Tvr	Pro	Gly	Ala	Val	Thr	Val	Ala	Trp	Lys	Ala	Asp	Ser	Ser	Pro	Val		
321					165					170					1/5			
323	AAG	GCG	GGA	GTG	GAG	ACC	ACC	ACA	CCC	TCC	AAA	CAA	AGC	AAC	AAC	AAG		576
324	Lvs	Ala	Gly	Val	Glu	Thr	Thr	Thr	Pro	Ser	Lys	Gln	Ser	Asn	Asn	Lys		
325				180					185					190				
327	TAC	GCG	GCC	AGC	AGC	TAC	CTG	AGC	CTG	ACG	CCT	GAG	CAG	TGG	AAG	TCC		624
328	Tyr	Ala	Ala	Ser	Ser	Tyr	Leu	Ser	Leu	Thr	Pro	Glu	Gln	Trp	Lys	Ser		
329			195					200					205)				670
331	CAC	AGA	AGC	TAC	AGC	TGC	CAG	GTC	ACG	CAI	GAA	GGG	AGC	ACC	GTG	GAG		672
332	His	Arg	Ser	Tyr	Ser	Cys	Gln	Val	Thr	His	Glu	Gly	Ser	Thr	Val	Glu		
333	ŀ	210)				215	;				220	1					700
335	AAG	ACA	GTG	GCC	CCI	ACA	GAA	TGT	TCA	TGA								702
336	Lys	Thr	. Val	Ala	Pro	Thr	Glu	ı Cys	Ser	•								
337	225	;				230	1											
340	(2)	INE	ORMA	CITA	1 FOF	SEC] ID	NO:	6:									
342		(i) SE	QUEN	ICE C	HARA	CTEF	RISTI	CS:									
.343	3		(A) I	LENGT	H: 2	33 a	aminc	aci	ds								
344			(В) 7	CYPE:	ami	no a	acid										
345					ropoi													
347		(i:	L) MC	LECU	JLE 1	YPE	pro	otein	1			_						
3/10	a	(x:	i) SE	EQUE	NCE I	ESC	RIPT	ON:	SEQ	ID 1	10: 6	:						
352	L Met	Ala	a Trp	Ala	a Leu	ı Let	ı Lev	ı Let	ı Gly	, Le	ı Lev	ı Ala	a His	s Phe	e Thi	Asp		

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/612,914A

DATE: 09/04/2001

TIME: 12:34:35

Input Set : N:\Crf3\RULE60\09612914A.txt
Output Set: N:\CRF3\09042001\I612914A.raw

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]